

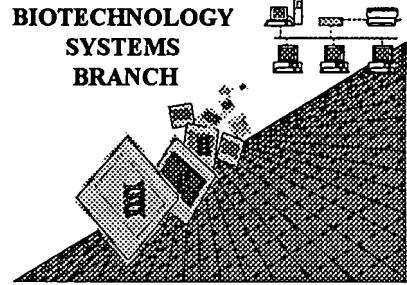
Wessendorf

#4

RAW SEQUENCE LISTING

ERROR REPORT

BIOTECHNOLOGY
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The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number: 09/096,749

Art Unit / Team No. : 1642

Date Processed by STIC: 9/9/98

THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,

2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

ARTI SHAH 703-308-4212

Raw Sequence Listing Error Summary

#4/42
10/19/98

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/096,749

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 **Wrapped Nucleic** The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".

2 **Wrapped Aminos** The amino acid number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".

3 **Incorrect Line Length** The rules require that a line not exceed 72 characters in length. This includes spaces.
All text must be visible on page.

4 **Misaligned Amino Acid Numbering** The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.

5 **Non-ASCII** This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.

6 **Variable Length** Sequence(s) contain n's or Xaa's which represent more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and indicate in the (ix) features section that some may be missing.

7 **Wrong Designation** Sequence(s) contain amino acid or nucleic acid designators which are not standard representations as per the Sequence Rules (Please refer to paragraph 1.822)

8 **Skipped Sequences (OLD RULES)** Sequence(s) missing. If intentional, please use the following format for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X:
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).

9 **Skipped Sequences (NEW RULES)** Sequence(s) missing. If intentional, please use the following format for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

10 **Use of N's or Xaa's (NEW RULES)** Use of N's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

11 **Use of <213>Organism (NEW RULES)** Sequence(s) are missing this mandatory field or its response.

12 **Use of <220>Feature (NEW RULES)** Sequence(s) are missing the <220>Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32)
(Sec. 1.823 of new Sequence Rules)

13 **Wrong Format** File submitted was in the alphabetical heading format of the Old Sequence Rules. This is invalid since the "Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Disclosures" Federal Register Notice, Vol. 63, No. 104, June 1, 1998, p. 29620 applies to applications filed on or after July 1, 1998.

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/096,749DATE: 09/09/98
TIME: 15:58:54

INPUT SET: S28504.raw

Wesendahl

This Raw Listing contains the General
Information Section and those Sequences
containing ERRORS.

Does Not Comply
Corrected Diskette Needed

SEQUENCE LISTING

1
2
3 (1) General Information
4
5 (i) APPLICANT: Koieda, Shohei
6
7 (ii) TITLE OF THE INVENTION: ARTIFICIAL ANTIBODY POLYPEPTIDES
8
9 (iii) NUMBER OF SEQUENCES: 118
10
11 (iv) CORRESPONDENCE ADDRESS:
12 (A) ADDRESSEE: Schwegman, Lundberg, Woessner & Kluth P.A.
13 (B) STREET: 121 South Eighth Street, Ste. 1600
14 (C) CITY: Minneapolis
15 (D) STATE: MN
16 (E) COUNTRY: USA
17 (F) ZIP: 55402
18
19 (v) COMPUTER READABLE FORM:
20 (A) MEDIUM TYPE: Diskette
21 (B) COMPUTER: IBM Compatible
22 (C) OPERATING SYSTEM: DOS
23 (D) SOFTWARE: FastSEQ Version 2.0b
24
25 (vi) CURRENT APPLICATION DATA:
26 (A) APPLICATION NUMBER: 09/096,749
27 (B) FILING DATE: June 12, 1998
28
29 (vii) PRIOR APPLICATION DATA:
30 (A) APPLICATION NUMBER:
31 (B) FILING DATE:
32
33 (viii) ATTORNEY/AGENT INFORMATION:
34 (A) NAME: Ann S. Viksnins
35 (B) REGISTRATION NUMBER: 37,748
36 (C) REFERENCE/DOCKET NUMBER: 109.034US1
37
38 (ix) TELECOMMUNICATION INFORMATION:
39 (A) TELEPHONE: (612) 373-6900
40 (B) TELEFAX: (612) 339-3061
41
42

ERRORRED SEQUENCES FOLLOW:

INPUT SET: S28504.raw

273 (2) INFORMATION FOR SEQ ID NO:13:

274

275 (i) SEQUENCE CHARACTERISTICS:

276 (A) LENGTH: 59 base pairs

277 (B) TYPE: nucleic acid

278 (C) STRANDEDNESS: single

279 (D) TOPOLOGY: linear

280

281 (ii) MOLECULE TYPE: cDNA

282 (iii) HYPOTHETICAL: NO

283 (iv) ANTI-SENSE: NO

284 (v) FRAGMENT TYPE:

285 (vi) ORIGINAL SOURCE:

286

287 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

288

289 CGGGATCCCC TATGCAGGTT TCTGATGTTG CGCGTGACCT GGAAGTTGTT

--> 290 GCTGGGACC 59

291

format error - see
item 1 on Error Summary
sheet

59

292 (2) INFORMATION FOR SEQ ID NO:14:

293

294 (i) SEQUENCE CHARACTERISTICS:

295 (A) LENGTH: 55 base pairs

296 (B) TYPE: nucleic acid

297 (C) STRANDEDNESS: single

298 (D) TOPOLOGY: linear

299

300 (ii) MOLECULE TYPE: cDNA

301 (iii) HYPOTHETICAL: NO

302 (iv) ANTI-SENSE: NO

303 (v) FRAGMENT TYPE:

304 (vi) ORIGINAL SOURCE:

305

306 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

307

308 TAACTGCAGG AGCATCCAG CTGATCAGCA GGCTAGTCGG GGTGCGAGCA

--> 309 ACAAC 55

310

Same
error

311 (2) INFORMATION FOR SEQ ID NO:15:

312

313 (i) SEQUENCE CHARACTERISTICS:

314 (A) LENGTH: 51 base pairs

315 (B) TYPE: nucleic acid

316 (C) STRANDEDNESS: single

317 (D) TOPOLOGY: linear

318

319 (ii) MOLECULE TYPE: cDNA

320 (iii) HYPOTHETICAL: NO

321 (iv) ANTI-SENSE: NO

322 (v) FRAGMENT TYPE:

323 (vi) ORIGINAL SOURCE:

INPUT SET: S28504.raw

324

325

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

326

327

CTCCTGCAGT TACCGTGCCT TATTACCGTA TCACGTACGG TGAAACCGGT G

328 51

329

402 (2) INFORMATION FOR SEQ ID NO:20:

403

404

(i) SEQUENCE CHARACTERISTICS:

--> 405

(A) LENGTH: 55 base pairs

406

(B) TYPE: nucleic acid

407

(C) STRANDEDNESS: single

408

(D) TOPOLOGY: linear

409

410

(ii) MOLECULE TYPE: cDNA

411

(iii) HYPOTHETICAL: NO

412

(iv) ANTI-SENSE: NO

413

(v) FRAGMENT TYPE:

414

(vi) ORIGINAL SOURCE:

415

416

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

417

418

CGGGATCCGA GCTCGCTGGG CTGTCACCAAC GGCCAGTAAC AGCGTATACA

--> 419

GTGAT 55

420

529 (2) INFORMATION FOR SEQ ID NO:27:

530

531

(i) SEQUENCE CHARACTERISTICS:

--> 532

(A) LENGTH: 51 base pairs

533

(B) TYPE: nucleic acid

534

(C) STRANDEDNESS: single

535

(D) TOPOLOGY: linear

536

537

(ii) MOLECULE TYPE: cDNA

538

(iii) HYPOTHETICAL: NO

539

(iv) ANTI-SENSE: NO

540

(v) FRAGMENT TYPE:

541

(vi) ORIGINAL SOURCE:

542

543

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:

544

545

GATCAGCTGG GATGCTCCTN NKNNKNNKNN KNNKTATTAC CGTATCACGT A

546 51

547

548 (2) INFORMATION FOR SEQ ID NO:28:

549

550

(i) SEQUENCE CHARACTERISTICS:

--> 551

(A) LENGTH: 57 base pairs

552

(B) TYPE: nucleic acid

553

(C) STRANDEDNESS: single

INPUT SET: S28504.raw

554 (D) TOPOLOGY: linear
555
556 (ii) MOLECULE TYPE: cDNA
557 (iii) HYPOTHETICAL: NO
558 (iv) ANTI-SENSE: NO
559 (v) FRAGMENT TYPE:
560 (vi) ORIGINAL SOURCE:
561
562 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:
563
564 TGTATACGCT GTTACTGGCN NKNNKNNKNN KNNKNNKNNK TCCAAGCCAA
--> 565 TCTCGAT 57
566

Same

567 (2) INFORMATION FOR SEQ ID NO:29:
568
569 (i) SEQUENCE CHARACTERISTICS:
--> 570 (A) LENGTH: 47 base pairs
571 (B) TYPE: nucleic acid
572 (C) STRANDEDNESS: single
573 (D) TOPOLOGY: linear
574
575 (ii) MOLECULE TYPE: cDNA
576 (iii) HYPOTHETICAL: NO
577 (iv) ANTI-SENSE: NO
578 (v) FRAGMENT TYPE:
579 (vi) ORIGINAL SOURCE:
580
581 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:
582
583 CTGTATACGC TGTTACTGGC NNKNNKNNK NKCCAGCGAG CTCCAAG
584 47
585

Same

586 (2) INFORMATION FOR SEQ ID NO:30:
587
588 (i) SEQUENCE CHARACTERISTICS:
--> 589 (A) LENGTH: 51 base pairs
590 (B) TYPE: nucleic acid
591 (C) STRANDEDNESS: single
592 (D) TOPOLOGY: linear
593
594 (ii) MOLECULE TYPE: cDNA
595 (iii) HYPOTHETICAL: NO
596 (iv) ANTI-SENSE: NO
597 (v) FRAGMENT TYPE:
598 (vi) ORIGINAL SOURCE:
599
600 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:
601
602 CATCACTGTA TACGCTGTTA CTNNKNNKNN KNNKNNKTCC AAGCCAATCT C
603 51
604

Same

INPUT SET: S28504.raw

2099 (2) INFORMATION FOR SEQ ID NO:110:
 2100
 2101 (i) SEQUENCE CHARACTERISTICS:
 --> 2102 (A) LENGTH: 94 amino acids
 2103 (B) TYPE: amino acid
 2104 (C) STRANDEDNESS: single
 2105 (D) TOPOLOGY: linear
 2106
 2107 (ii) MOLECULE TYPE: peptide
 2108 (iii) HYPOTHETICAL: NO
 2109 (iv) ANTI-SENSE: NO
 2110 (v) FRAGMENT TYPE: internal
 2111 (vi) ORIGINAL SOURCE:
 2112
 2113 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:110:
 2114
 2115
 2116 Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu
 2117 1 5 10 15
 2118 Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Tyr Tyr Arg Ile Thr Tyr Gly Glu
 2119 20 25 30 35
 --> 2120 Thr Gly Gly Asn Ser Pro Val Oxx Glu Phe Thr Val Pro Gly Ser Lys Ser Thr Ala
 2121 40 45 50 55
 2122 Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr
 2123 60 65 70 75
 2124 Gly Arg Gly Asp Ser Pro Ala Ser Ser Lys Pro Ile Ser Ile Asn Tyr Arg Thr
 2125 80 85 90
 2126

↓ involved amino acid - see 1822(b) of
Sequence Rule

2127 (2) INFORMATION FOR SEQ ID NO:111:
 2128
 2129 (i) SEQUENCE CHARACTERISTICS:
 --> 2130 (A) LENGTH: 248 base pairs
 2131 (B) TYPE: nucleic acid
 2132 (C) STRANDEDNESS: single
 2133 (D) TOPOLOGY: linear
 2134
 2135 (ii) MOLECULE TYPE: cDNA
 2136 (iii) HYPOTHETICAL: NO
 2137 (iv) ANTI-SENSE: NO
 2138 (v) FRAGMENT TYPE:
 2139 (vi) ORIGINAL SOURCE:
 2140
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 111:
 2141
 2142 CTGCTGATCA GCTGGGATGC TCCTGCAGTT ACCGTGCGTT ATTACCGTAT
 2143 CACGTACGGT
 2144
 2145 GAAACCGGTG GTAACTCCCC GGTTCAAGAA TTCACTGTAC CTGGTTCCAA
 2146 GTCTACTGCT
 2147
 2148 ACCATCAGCG GCCTGAAACC GGGTGTGAC TATACCATCA CTGTATACCG
 2149

(see item
7 on Exam
Summary
sheet)

60 where are
Cumulative
base totals
at end of
each line?

RAW SEQUENCE LISTING
PATENT APPLICATION **US/09/096,749**DATE: 09/09/98
TIME: 15:58:58*INPUT SET: S28504.raw*

2150 **TGTTACTGGC**
2151
2152 **CGTGGTGACA GCCCAGCGAG CTCCAAGCCA ATCTCGATTA ACTACCGTAC**
2153 **CTAGTAACTC**
2154
--> 2155 **GAGGATCC**

248

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/09/096,749

INPUT SET: S28504.raw

Line	Error	Original Text
276	Entered (59) and Calc. Seq. Length (9) differ	(A) LENGTH: 59 base pairs
290	# of Sequences for line conflicts w/ running total	GCTGCGACC 59
295	Entered (55) and Calc. Seq. Length (5) differ	(A) LENGTH: 55 base pairs
309	# of Sequences for line conflicts w/ running total	ACAAAC 55
314	Entered (51) and Calc. Seq. Length (0) differ	(A) LENGTH: 51 base pairs
405	Entered (55) and Calc. Seq. Length (5) differ	(A) LENGTH: 55 base pairs
419	# of Sequences for line conflicts w/ running total	GTGAT 55
532	Entered (51) and Calc. Seq. Length (0) differ	(A) LENGTH: 51 base pairs
551	Entered (57) and Calc. Seq. Length (7) differ	(A) LENGTH: 57 base pairs
565	# of Sequences for line conflicts w/ running total	TCTCGAT 57
570	Entered (47) and Calc. Seq. Length (0) differ	(A) LENGTH: 47 base pairs
589	Entered (51) and Calc. Seq. Length (0) differ	(A) LENGTH: 51 base pairs
2102	Entered (94) and Calc. Seq. Length (93) differ	(A) LENGTH: 94 amino acids
2120	Wrong Amino Acid Designator	Thr Gly Gly Asn Ser Pro Val Oxx Glu Phe Thr Val Pro Gly
2130	Entered (248) and Calc. Seq. Length (8) differ	(A) LENGTH: 248 base pairs
2155	# of Sequences for line conflicts w/ running total	GAGGATCC

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Notice of Availability of Checker Program

Applicant Aid for Biotechnology Computer Readable Form (CRF) Sequence Listing Submissions

The Patent and Trademark Office (PTO) has developed a computer program, called Checker, that will aid applicants in identifying and correcting errors prior to making submissions for compliance with the Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures (Sequence Rules: 37CRF 1.821 through 1.825).

Final rules were published in the *Federal Register* (55 FR18230) on May 1, 1990, and in the PTO *Official Gazette* (1114 Off.Gaz.PatOffice 29) on May 15, 1990.

Checker is a DOS-based software program that is intended to assist users in determining whether errors may be present in the sequence listings, and is not intended to guarantee that the submission is error-free.

The most current version of the software is available via computer downloading, details are below. Copies on diskette are also available. Updated software versions will not be automatically mailed out; any updates will be announced in the PTO *Official Gazette*.

The software can be accessed/requested from the following locations:

- 1) Dial-up access through the Internet. Location is <ftp://ftp.uspto.gov>
The software is in current directory: pub/checker/
Download all the files. Cost: Free-of-charge
- 3) For diskette copies, mail to: U.S.P.T.O., OEIP, CRYSTAL PARK 3, SUITE 441
WASHINGTON DC 20231

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PTO Deposit Account

For Further Information, Contact: Arti Shah at 703-308-4212